Approved For Release 290008/31 CIA-RDP78B04767A0Q0300050009-3 ECIAL HANDLING

25X1A

CURRENT PLANS FOR SYSTEMS CAPABILITY EFFORT 2 MAY 1968

Approved For Release 2000/08/31 : CIA-RDP78B04767A 00300050009-3

SECRET/SPECIAL HANDLING

FLIGHT	TEST	DESCRIPTION
CR-1	FILTER EXPOSURE	21, 23A, 25 1-1/3 STOP RANGE; DENSITY COMPARISON
CR-2 .	BISPECTRAL POLARIZER SO-230	W/25 + SF-05 POLOCOAT, 20 ANGLE
CR-3	BISTECTRAL WIDE BAND FILTER SC-380	W/25 + SF-05, CPERATICNAL WRATTEN NO. 12 ULTRA THIN BASE FILM
CR-4	SO-180 3400	COLOR INFRARED FILM NIGHT
OR	SO-180 BISPECTRAL	COLOR INFRAMED FILM W/25 + SF-05
CR-5	SO-121	EKTACHROME COLOR .

SECRET/SPECIAL HANDLING

Approved For Release 2000/08/31 : CIA-RDP78B04767A000300050009-3

1. FILTER EVALUATION

- BASIC OBJECTIVE: SEE WHAT DIFFERENCES OCCUR IN OPERATIONAL PHOTOGRAPHY WITH THE WRATTEN NO. 12, 21, 23A, AND 25 FILTERS
 - A. SUBJECTIVE EVALUATION
 - B. MTF ANALYSIS OF IMAGE QUALITY
 - C. TRADEOFF BETWEEN EXPOSURE TIME AND ATMOSPHERICS

2. EXPOSURE ANALYSIS

- . EASIC OBJECTIVE: DETERMINE:
 - 1. IF SLIT CHANGED PROPERLY
 - 2. IF WE EXPOSE PROPERLY
 - 3. COMPARISON BETWEEN TARGETS AND TERRAIN DENSITIES
 - A. SUBJECTIVE EVALUATION
 - B. DENSITY VERSUS FREQUENCY ANALYSIS
 - C. EMPOSURE ANALYSIS WITH HIGH PRIORITY TARGETS
 - D. COMPARISON OF TARGETS AND TERRAIN DENSITIES

3. BISPECTRAL PHOTOGRAPHY

- BASIC CBJECTIVE: TEST THE OPERATIONAL FEASIBILITY OF OBTAINING BISPECTRAL PHOTOGRAPHY FROM MISSION PHOTOGRAPHY
 - A. SUBJECTIVE ANALYSIS OF TARGETS WITH RESPECT TO TONAL DIFFERENCES, (NPIC)
 - B. OBTAIN GOOD BISPECTRAL PRINTS
 - C. IMAGE QUALITY ANALYSIS OF SF-05 IMAGERY
 - D. TEST BEST METHOD OF OBTAINING BISPECTRAL IMAGES

Approved For Release 2000/08/31 : CIA-RDP78B04767A000300050009-3

4. POLLARIZER FILTER

- BASIC OBJECTIVE: DETERMINE THE EFFECTIVENESS OF A POLARIZER AS A HAZE-CUTTING FILTER
 - A. IMAGE QUALITY ANALYSIS
 - B. ATMOSPHERIC EFFECTS AS A FUNCTION OF SOLAR ALTITUDE AND AZIMUTH.
 - C. DETERMINE EFFECTIVE FILTER FACTOR
 - D. SUBJECTIVE ANALYSIS OF TONAL PENDITION

5. SO-230

- BASIC OBJECTIVE: COMPARE SO-230 WITH 3404 IN ANOPERATIONAL MISSICN
 - A. FILM SENSITOMETRIC CHARACTERISTICS (FOG, GAMMA, SPEED, FILTER FACTORS)
 - B. FILM IMAGE QUALITY ANALYSIS (MTF, RESCLUTION)
 - C. SUBJECTIVE EVALUATION OF FLIGHT FILM
 - D. SYSTEM RESOLUTION
 - E. TONE REPRODUCTION COMPARISON

6. SO-380

- . BASIC OBJECTIVE: TEST SO-380 IN THE SYSTEM
 - A. FILM SENSITOMETRIC CHARACTERISTICS (FOG, GAMMA, SPEED, FILTER FACTORS)
 - B. FILM IMAGE QUALITY ANALYSIS (MTF, RESOLUTION)
 - C. SUBJECTIVE EVALUATION OF FLIGHT FILM
 - D. SYSTEM RESOLUTION (MTF/AIM)
 - E. LAB CHAMBER TESTS
 - F. LIMITED DIMENSIONAL STABILITY ANALYSIS

Ápproved For Release 2000/08/31 ÷ CIA-RDP78B04767A990306050009-3

- 7. SO-180
 - c BASIC OBJECTIVE: OBTAIN MISSION PHOTOGRAPHY WITH CAMOUFLAGE COLOR FILM
 - A. SUBJECTIVE ANALYSIS OF INFORMATION CONTENT
 - B. TONE REPRODUCTION ANALYSIS
 - C. RELATIVE IMAGE QUALITY (RESCLUTION, MICROPHOTOGRAPHS)
- 8. NIGHT PHOTOGRAPHY
 - BASIC OBJECTIVE: DETERMINE IF ACTIVITY CAN BE DETECTED AT NIGHT
 - A. SUBJECTIVE ANALYSIS
 - B. STATIC ANALYSIS
 - C. THEORETICAL ANALYSIS OF NIGHT DETECTION CAPABILITY

		CONTROL	NO		
5X1A				Ž.	2
REFERRED TO	RECEIVI	ED	RELEASED	SEEN BY	-0
OFFICE	SIGNATURE	DATE TIME	DATE TIME	NAME & OFFICE SYMBOL	0
				(AM)	
			 	Coffee -	
					+
			l		\perp
				<u> </u>	
	Handla	Via Indica	ted Cont	rols	
		Tid Indica			
				25X1A	
	7.0				
		مطالنين عم	rostricto	d to those person	n s
Access	othis docume	ut will be	163111616		•••
	cleared t	for the spe	ecitic pro	ojects;	
		••••••	•••••	•••••	••
				•	
•••••	••••••	•••••••	•••••	••••	••
		WARNIN			
			IG	a United States within the me	anir
-Calion	aga lawa ti S. Cada Ti	fecting the national	IG security/ af the 93 and 794. T	e United States withIn the me the law prahibits its transmiss	ian a
af the espian	age laws U.S. Cade Ti	fecting the national tle 18, Sections 79 manner to an ungu	IG security/ af th: 93 and 794. T utharized persar	he law pranibits its transmissi i, as well as its use in any m	ann
af the espian the revelation	age laws U.S. Cade Ti af its cantents in any	fecting the national tile 18, Sections 79 manner to an unac f the United States	IG security; af th. 93 and 794. T otharized persar ar far the bene	e United States withIn the me he law prahibits its transmiss n, as well 'as its use in any m efit af any fareign government ecially indactrinated and autho	ann ta th

25X1A

with regulations pertoining to

